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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/440,624	11/16/1999	YUTAKA MAEDA	0879-0244P	3184	
	7590 11/12/200 ART KOLASCH & BI	EXAMINER			
POBOX 747	OH ALA 22040 0747	JONES, HEATHER RAE			
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			2621		
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			11/12/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	tion No.	Applicant(s)				
Office Action Summary			624	MAEDA, YUTAKA				
			er	Art Unit				
		HEATH	ER R. JONES	2621				
Period fo	The MAILING DATE of this commur or Reply	nication appears on t	he cover sheet with the	e correspondence addres	is			
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANAGER IS LONGER, FROM THE MANAGER IS LONGER, FROM THE MANAGER IS LONGER IS LONGER IN THE MANAGER I	MAILING DATE OF one of 37 CFR 1.136(a). In no munication. In the control of the c	THIS COMMUNICATION event, however, may a reply be will expire SIX (6) MONTHS from pplication to become ABANDO	ON. e timely filed om the mailing date of this commul NED (35 U.S.C. § 133).				
Status								
	Responsive to communication(s) file	ed on 22 Sentember	r 2008 and 1 July 200:	8				
2a)□	Responsive to communication(s) filed on <u>22 September 2008 and 1 July 2008</u> . This action is FINAL . 2b) This action is non-final.							
3)□		<i>'</i> —		prosecution as to the me	rits is			
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	· · · · · · · · · · · · · · · · · · ·	, , ,					
· · ·		ng in the application						
•	Claim(s) <u>1,2 and 16-27</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
		ire withdrawn hom c	onsideration.					
'=	5) Claim(s) is/are allowed. 6) Claim(s) <u>1,2 and 16-27</u> is/are rejected.							
·		eu.						
•	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
0)[olalin(s) are subject to resur	ction and/or election	requirement.					
Applicati	on Papers							
9)	The specification is objected to by th	e Examiner.						
10)🛛	The drawing(s) filed on <u>16 Novembe</u>	<u>er 1999</u> is/are: a)⊠	accepted or b)☐ obje	ected to by the Examiner	·.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	g the correction is requ	uired if the drawing(s) is	objected to. See 37 CFR 1.	.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 22, 2008 and July 1, 2008 has been entered.

Response to Arguments

2. Applicant's arguments filed July 1, 2008 have been fully considered but they are not persuasive.

The Applicant argues that Anderson et al. in view of Hashimoto fails to disclose that the changing device halves the current imaging cycle at least once when the brightness of the object is higher than the brightness corresponding to the imaging cycle. The Examiner respectfully agrees. Therefore, Yamazaki et al., previously used in the rejection for claim 27, has been included in the rejection for claim 1. See the rejection below for a further explanation.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1, 2, and 16-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (U.S. Patent 6,498,623) in view of Hashimoto (U.S. Patent 6,972,799) in view of Yamazaki et al. (U.S. Patent 5,604,537).

Regarding claim 1, Anderson et al. discloses an electronic camera, comprising: a display (302) to display a sequence of captured images of an object (col. 8, lines 50-55); an imaging device (224) which captures the sequence of images and outputs image signals for the sequence of images at a rate defined by an imaging cycle (frame rate) of the imaging device (224), the imaging cycle (frame rate) defining a maximum exposure period (exposure time) for the imaging device for the captured sequence of images (col. 7, lines 57-63; col. 8, lines 39-41); a changing device (238) which automatically changes a current imaging cycle (frame rate) of the imaging device (224), thereby changing the maximum exposure period (exposure time) for the imaging device (224) (col. 4, lines 64-67; col. 7, lines 53-63 – the frame rate and the exposure time are related as defined by the equation given in col. 7, lines 57-58, therefore, if one changes then the other one would automatically be affected); an image memory (536) for temporarily storing the image signals sequentially outputted from the imaging device (224), the image signals in the image memory (536) are read out with a predetermined interval and outputted to the display (302) (col. 6, lines 47-65); and a controller (390) which controls the display (302) to display the sequence of

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images according to the image signals while the imaging device (224) is capturing subsequent images, such that the display (224) shows a live image of the captured sequence of images to enable determination of an image-capturing angle of view (col. 6, lines 60-65 – by showing a live image the user can determine the image-capturing angle of view). However, Anderson et al. fails to disclose a detection device that detects the brightness of the object as well as a changing device that automatically changes a current imaging cycle of the imaging device according to the brightness of the object, thereby changing the maximum exposure period for the imaging device for the captured sequence of images, wherein the changing device doubles the default imaging cycle at least once when the brightness of the object is lower than the brightness corresponding to the imaging cycle, and wherein the changing device halves the current imaging cycle at least once when the brightness of the object is higher than the brightness corresponding to the imaging cycle.

Referring to the Hashimoto reference, Hashimoto discloses an electronic camera comprising: a detection device, which detects brightness of the object; and a changing device which automatically changes the imaging cycle of the imaging device by doubling according to the brightness of the object, thereby changing the maximum exposure period for the imaging device for the captured sequence of images, wherein the changing device doubles the default imaging cycle at least once when the brightness of the object is lower than the brightness corresponding to the default imaging cycle. (Fig. 7 – the default imaging cycle is

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set to 1/60 and then it changes to 1/30 to accommodate the brightness; abstract; col. 1, lines 47-53; col. 1, line 62 – col. 2, line 3; col. 5, lines 33-36; col. 8, lines 22-29; col. 11, lines 42-52; col. 14, lines 50-54; col. 17, lines 25-34; col. 18, lines 14-21).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the electronic camera disclosed by Anderson et al. and changed the exposure time according to the brightness of the object as disclosed by Hashimoto in order to appropriately cope with different imaging conditions. However, Anderson et al. in view of Hashimoto still fail to disclose that the changing device halves the current imaging cycle at least once when the brightness of the object is higher than the brightness corresponding to the imaging cycle.

Referring to the Yamazaki et al. reference, Yamazaki et al. discloses an electronic camera wherein the changing device halves an imaging cycle longer than the default imaging cycle at least once when the brightness of the object is higher than the brightness corresponding to the imaging cycle (Fig. 12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the frame rate switching device as disclosed by Yamazaki et al. reference with the changing device disclosed by Anderson et al. in view of Hashimoto in order to include more frame rate speeds to better compensate for the object luminance.

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Regarding claim **2**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claim 1 except that the changing device is manually operated to change the cycle of the imaging device. Official Notice is taken that the changing device can be manually operated to change the cycle of the imaging device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have manually operated the changing device in order to change the cycle of the imaging device in order to give the user more control over the image capturing process.

Regarding claim **16**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claim 1 as well as further disclosing a signal processor (344) for processing and temporarily storing image signals outputted by the imaging device (224) before outputting to the display (302) (Anderson et al. col. 6, lines 47-65).

Regarding claim **17**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claims 1 and 16 as well as further disclosing a memory card (354) for storing select images outputted by the imaging device (224) (Anderson et al.: col. 5, lines 40-49).

Regarding claim **18**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claim 1 including that the rate is a video rate (frame rate), and the changing

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device (238) changes the video rate (348) to enable the imaging device to output brighter images to the display (Anderson et al: col. 7, lines 57-63; col. 8, lines 39-41 – correlating the frame rate with the exposure time will allow the display to output brighter images).

Regarding claim **19**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claim 1, including that the imaging device (224) is a charge coupled device (CCD) that captures the sequence of images (Anderson et al.: col. 4, lines 61-64).

Regarding claims **20-26**, these are method claims corresponding to the apparatus claims 1, 2, and 16-19. Therefore, claims 20-26 are analyzed and rejected as previously discussed with respect to claims 1, 2, and 16-19.

Regarding claim **27**, Anderson et al. in view of Hashimoto in view of Yamazaki et al. discloses all the limitations as previously discussed with respect to claim 1 including that the changing device halves an imaging cycle longer than the default imaging cycle at least once when the brightness of the object is higher than the brightness corresponding to the imaging cycle (Yamazaki et al.: Fig. 12).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HEATHER R. JONES whose telephone number is

(571)272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am - 4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones Examiner Art Unit 2621

HRJ November 7, 2008

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621